

ABSTRACT

The purpose of this experiment is to find substantial low cost mediums in substitution for YM media for growing *Saccharomyces cerevisiae* (yeast). The mixing compounds used on this experiment for making modified mediums are easy to find, as it was easy to prepared. Thirteen modified mediums formula were formulated in comparison to YM media, however only eight modified mediums formula shows visibility growth of yeast, where as five of them failed to show sign of visibility. Based on money saving factor, formula F7 indicated the highest percentage of money saving up to 30.52% but in comparing the growth visibility, formula F5 shows a similar growth factor to YM medium with money saving up to 29.92% which seem to be the most appropriate one.

